



## Job Description

**Title: Senior Scientist**

(Machine Learning, Artificial Intelligence, Human-Machine Relationships)

*Multiple positions available*

### **Purpose:**

The role of the Senior Scientist is to lead the planning, execution, and evaluation of applied research and development projects in support of defense, other government, or industry clients. Research topics will include productivity and performance, learning and development, adaptive training, human performance assessment, and other related topics. The Senior Scientist will develop mission and business-relevant prototypes and practices, co-author papers and research proposals, execute research studies, and present findings. The Senior Scientist will also support management in business development efforts by managing an active portfolio of new and existing clients.

### **Duties and Responsibilities:**

- Perform as Principal Investigator (PI) to lead projects with responsibilities for scientific leadership, scope, and tasking of team members
- Develop and manage the execution of research project plans
- Manage and critically review statistical analyses
- Lead the preparation of research and development project proposals
- Provide mentorship and guidance to junior team members
- Actively participate in the Artificial Intelligence (AI), Machine Learning (ML), or Human-Machine Relationships (HMR) communities through conference presentations, peer-reviewed publications, and other venues
- Actively pursue a business development relationship with new and existing clients
- Build and sustain strong client relationships ensuring they receive excellent service
- Build and sustain a strong portfolio of Artificial Intelligence (AI), Machine Learning (ML), or Human-Machine Relationships (HMR)

### **Qualifications:**

- U.S. Citizen
- Ph.D. in Computer Science, Mathematics, Statistics, or related field and 15+ years of related experience
- Demonstrated expertise in Artificial Intelligence (AI), Machine Learning (ML), or Human-Machine Relationships (HMR)

- Strong publication record in peer-reviewed journals, conferences, and symposia
- Experience leading a research team in solving analytical problems using quantitative approaches
- Experience with an ML toolkit such as TensorFlow, PyTorch, etc.
- Familiar with at least one mathematical/statistical programming package
- Expertise in implementing and applying machine learning techniques to different types of data sets
- Expertise deploying systems that contain AI components into operational environments
- Strong written and oral communication skills
- Familiarity with Microsoft Word, Excel, PowerPoint, Project, SPSS

**Work Environment:**

The majority (85%) of this position is situated in a typical office environment and includes the use of a computer (6-8 hours per day), telephone, and web-based video communications. The remaining 15% of time may include activities at customer sites such as military installations and other commercial industrial or office settings. Working in any field environment you may be exposed to the elements (hot or cold temperatures, sun, wind, snow, rain, etc.). Military installations may require work in wilderness settings and handling or being near live ammunition and weapons. Activities required will include traveling (flying or driving) for long periods, may require walking or standing for long durations (6-8 hours), crouching, kneeling, and carrying equipment. You may be required to wear additional safety equipment including but not limited to a helmet, eye and ear protection, safety vest, and steel-toed boots.

**Travel:**

The Senior Scientist will be expected to travel up to 15% of working hours per month for the following purposes:

- Business development opportunities
- Conference presentations and attendance
- Team and organizational meetings (if remote)

**Security Clearance:**

All employees must have or be capable of acquiring a Secret DoD security clearance. Guidelines indicating those items that may prevent you from obtaining a security clearance can be found here: <http://www.fas.org/sgp/isoo/guidelines.html>.

**Background Check and Drug Testing:**

Our clients may require background checks and drug testing.